**JavaScript:** JavaScript was object based interpreter scripting language till ES5 version. From ES6 onward JavaScript also known as object oriented interpreter scripting language.

ECMA it is a concept. JavaScript is one of the implementation of ECMA.

Class keyword.

Using JavaScript we can do programming on web page without server.

If we want to display welcome message using JS. We need to use script tag inside html web page

Syntax

<script type=”text/JavaScript”> opening tag

We can do coding …….

</script> closing tag

**Variable :** variable is a name which hold the value.

In JS to declare the variable we need to use var keyword till ES5 from ES6 onward we can use let and const keyword.

Syntax

**var varibleName;**

var m; by default value of m is undefined.

var a=10; number type consider

var b=10.10; number type consider

var fname =”Ravi”; string type consider

var result = true; Boolean type consider

var obj =new Date(); object type consider

**Operators :** operator is use to do some operation on variables.

Arithmetic operator : +, -, \*, /

Conditional operator : >, >=, <, <=, ==, !=

Assignment operator : =

=== operator

Logical operator : &&(if both condition true then result is true), ||(any condition true then result is true), !

Increment and decrement operator : ++, --

**Conditional statement**

1. If statement

If(condition) {

True block

}

1. If else statement

If(condition) {

True block

}else {

False block

}

1. If else if statement

If(condition1) {

}else if(condition2) {

}else if(condition3) {

}else {

}

1. switch statement

syntax

var n=10;

switch(variableName) {

case 1: block1;

break;

case 2: block2;

break;

case 3: block3;

break;

default : default block

break;

}

**Looping :** looping is use to execute the set of statement again and again till the condition become false.

While loop

Syntax

Initialization : start position and end position var i=0,n=100;

while(condition i <=n) { entry look

do the task document.write(i)

increment or decrement. i++;

}

Do while loop

Syntax

Initialization : start position and end position var i=0,n=100;

do {

do the task document.write(i)

increment or decrement

}while(condition) exit loop

For loop

Syntax

1 2 4

for(initialization;condition;increment/decrement) {

body of the loop 3

}

for(var i=0,n=10; i <=n ; i++) {

document.write(i);

}

1 to 10 tables

1\*1=1 2\*1=2 3\*1=3

1\*2=2 2\*2=2 3\*2=6

1\*3=3 2\*3=3 3\*3=9

**Functions**

Set of instruction to perform a specific task.

In JavaScript functions mainly divided into 2 types.

1. Pre defined or built in function
2. User defined functions

Pre defined functions

1. alert() : it is use to do display pop message.
2. prompt() : this function is use to receive the value from keyboards.
3. parseInt() : it is use to convert string to integer without decimal number
4. parseFloat(): it is use to convert string to float with decimal number.
5. eval : it is use to convert string to number (it can be with or without decimal number).
6. Confirm : it display two button. If we click ok it return true if we click cancel it return false.

**User defined functions**

In JS we can create user defined function with lot ways or different syntax.

1. Normal ways function creations

Syntax

function functionName(parameterlist) {

function body;

}